

Title (en)  
SOLID STATE MICROWAVE SOURCE

Publication  
**EP 0017562 B1 19830511 (FR)**

Application  
**EP 80400401 A 19800326**

Priority  
FR 7908790 A 19790406

Abstract (en)  
[origin: US4327339A] A solid state microwave source placed within a rectangular waveguide, whose one end is short-circuited. The microwave source incorporates a negative resistance diode system placed on the inner wider wall of the waveguide and perpendicularly with respect to the waveguide transmission direction, a resonant microband line suspended by means of a dielectric substrate, a connecting means between the diode system and the resonant line, and means for connecting to an external polarization source.

IPC 1-7  
**H03B 9/14**

IPC 8 full level  
**H03B 9/12** (2006.01); **H03B 9/14** (2006.01)

CPC (source: EP US)  
**H03B 9/143** (2013.01 - EP US)

Cited by  
US4480233A; EP0106740A1; FR2533777A1

Designated contracting state (EPC)  
DE GB IT NL

DOCDB simple family (publication)  
**EP 0017562 A1 19801015; EP 0017562 B1 19830511**; DE 3063038 D1 19830616; FR 2453535 A1 19801031; FR 2453535 B1 19821001; JP S55140304 A 19801101; US 4327339 A 19820427

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**EP 80400401 A 19800326**; DE 3063038 T 19800326; FR 7908790 A 19790406; JP 4509880 A 19800404; US 13640080 A 19800401